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CHRONICLE OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

***The radio communiqués of the International Institute of Agriculture will be transmitted between 3 and 3.10 p. m. on the following days: Thursday,* English *and* German; *Friday,* Spanish; *Tuesday,* Italian *and* French.**

They will be broadcast from Rome II (245.5 m.) and Rome 2 RO 4 (25.4 m.).

The hour of broadcasts is Central European Time, which is one hour ahead of Greenwich Mean Time, and 5 hours ahead of Eastern Standard Time in the United States.

Work of the International Institute of Agriculture. — The work of the International Institute of Agriculture continued normally during the month. At its coming meeting, on December 14, the Permanent Committee of the Institute will examine the report prepared for the General Assembly to be held next May. This report will bear on many important aspects of world agricultural activity. At the same meeting the Committee will draw up a list of studies and other publications to appear in 1940.

The Bureaux of the Institute, under the direction of the Secretary General, have prepared a programme of work for 1940 which takes account of the possibilities of the Institute and of the present circumstances.

International Catalogue of Agricultural Films. — The General Assembly of the Institute held in May 1938 instructed the Bureaux of the Institute to facilitate a more rapid exchange of international films between the various countries and to publish a periodical list of the agricultural films brought to their notice by the Member Governments. The following countries have responded to the request for information for inclusion in an international catalogue of agricultural films: Argentina, Australia, Belgium, Belgian Congo, Canada, Denmark, Egypt, Finland, France, Germany, Hungary, India, Italy, Japan, Lithuania, Luxemburg, Mexico, Netherlands, Netherlands Indies, Norway, New Zealand, Portugal, Scotland, Tunisia, Union of South Africa, United States, Uruguay. The number of titles received has already reached 1,200. The subjects dealt with by the films include all branches of agriculture and rural life, from vegetal physiology to methods of cultivation, from cereals to vines, forestry and tropical crops, from animal physiology to the control of parasites, and from agricultural machinery to household management and social hygiene; films for entertainment are also included. The titles and information received suggest that it will soon be possible to publish a first list of agricultural films with notes on the contents and the character of the films and the names of the bodies which have issued them.

International Exhibition of Agricultural Films. — The work of the Institute on agricultural films will also be demonstrated in an international exhibition of agricultural films to be held, if circumstances permit, on the occasion of the coming General Assembly. This scheme will consist of the showing of a certain number of films to be supplied to the Institute by the chief producing countries. Governments have been requested to contribute to the scheme also by giving prizes for the best films, the awards to be made by a selection board set up at the Institute. More details on the scheme will be given later in this *Chronicle*.

PUBLICATIONS OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

JUST OUT:—

L'OLIVIER DANS LE MONDE

(Olives and Olive Oil – World Production and Trade)

(French edition only at present, VIII + 248 pp., 8vo., with maps).
PRICE: **25 lire.**

This volume is the sixth in the series of studies prepared by the International Institute of Agriculture on the world production of, and trade in, the *principal agricultural products*. The first five studies have already been published. They are:—

No. 1. - WORLD COTTON PRODUCTION AND TRADE

The geography of cotton production – Conditions of cotton marketing and movements of cotton prices – The evolution of world cotton trade – The cotton industry.

(1936, XII + 464 pp., 8vo., with a cotton calendar, various maps and diagrams). — **Price: 30 lire.**

No. 2. - INTERNATIONAL TRADE IN MEAT

International trade in cattle, beef and veal – International trade in pigs, pigmeat and lard – International trade in sheep, lamb and mutton – Production, consumption and imports of meat in the principal countries that import meat since the war.

(1936, XII + 424 pp., 8vo., with diagrams and statistical tables),
Price: 25 lire.

No. 3. - WORLD PRODUCTION IN MEAT

The present total head of meat animals in the world – Development of meat production in the world – Trends in meat production.

(1938, XII + 320 pp., 8vo., with diagrams and statistical tables)
Price: 30 lire.

No. 4. - OILS AND FATS: PRODUCTION AND INTERNATIONAL TRADE

Part I. — Vegetal oils and fats (products of herbaceous crops; products of tree crops; trends of world production of and trade in oleaginous vegetal raw materials and their products.

(1939, XVI + 348 pp., 8vo., with maps and diagrams). — **Price: 25 lire.**

No. 5. - OILS AND FATS: PRODUCTION AND INTERNATIONAL TRADE

Part II. — Land animal fats – Marine animal oils and fats – Production and consumption of fats and oils in certain countries – Utilization of fats and oils – Prices of fats and oils.

(1939, 424 pp., 8vo., with diagrams). — **Price 25 lire.**

INTERNATIONAL BULLETIN
OF PLANT PROTECTION

1939 No. 12

DISCOVERIES AND CURRENT EVENTS *

Palestine: Diseases of Fruiting Plants (Except Citrus) †

In the following a preliminary list is given of diseases occurring on fruiting plants (except citrus) in Palestine, as studied at the Division of Plant Pathology of the Agricultural Research Station, Rehovot, from 1923 to 1938. The author was assisted in the collection and determination of these diseases by Dr. M. Chorin, Ing. G. Minz, Dr. J. Perlberger and Dr. F. Littauer, assistants at the above mentioned laboratory.

A preliminary list of diseases observed on citrus plants has been already published in the April issue of this *Bulletin* (see pp. 75-81).

Anacardium occidentale Linn. – Cashew nut.	*Fusarium* sp.	Collar and root rot, damping off.
	Gloeosporium sp.	Anthracnose, leaves.
	Pestalozzia sp.	Leaf spot.
	Pythium sp.	Collar and root rot.
Anona squamosa Linn. – Anona.	*Bacterium* sp.	Damping off.
	Fusarium sp.	Root rot, shoot rot.
	Pythium sp.	Root rot.
	Rhizoctonia solani Kühn.	Root rot.
	Black tip (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Leaf spot (undetermined).	
Carica papaya Linn. – papaya.	*Alternaria* sp.	Fruit spot.
	Fusarium sp.	Collar and root rot.
	Pythium sp.	Damping off; fruit, stem, collar and root rot.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotium bataticola Taub.	Collar and root rot.

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the official correspondent of the Institute, Dr. I. Reichert, Chief Plant Pathologist, Division of Plant Pathology, Agricultural Research Station, Rehovot, Palestine.

Ceratonia siliqua Linn. – Carrob.	*Alternaria* sp.	Damping off, leaf scorch, leaf spot.
	Cladosporium sp.	Leaf spot.
	Fusarium sp.	Damping off, collar and root rot.
	Oidium ceratoniae Comes.	Mildew.
	Pestalozzia sp.	Leaf spot.
	Phoma sp.	Damping off.
	Rhizoctonia solani Kühn.	Damping off, collar and root rot.
	Sclerotium bataticola Taub.	Damping off.
	Leaf spot (undetermined).	
Cydonia oblonga Mill. – Quince.	*Alternaria* sp.	Sooty mould on fruit.
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Cladosporium sp.	Sooty mould on fruit, leaf spot.
	Fusarium sp.	Root rot.
	Pestalozzia sp.	Leaf spot.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotium bataticola Taub.	Root rot.
	Wither-tip (undetermined).	
	Burr-knot (non-parasitic).	
	Black spot (undetermined).	
	Chlorosis (undetermined).	
	Leaf scorch (non-parasitic).	
	Leaf spot (undetermined).	
Diospyros kaki Linn. – Persimmon.	*Bacterium* spp.	Fruit spots, fruit drop.
	Fusarium sp.	Collar and root rot.
	Macrophoma sp.	Blight.
	Rhizoctonia solani Kühn.	Collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Fruit drop (non-parasitic).	
	Gum spot (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Leaf spot (non-parasitic).	
D. lotus Linn.	Dry, brown leaf spot (non-parasitic).	
D. virginiana Linn.	*Bacterium tumefaciens* EFS. et Town.	Crown gall.
	Fusarium sp.	Collar rot.
	Sclerotium bataticola Taub.	Collar and root rot.

Eriobotrya japonica Lindl. – Loquat.	*Alternaria* sp.	Black leaf spot.
	Fusarium sp.	Collar and root rot, root rot.
	Pestalozzia sp.	Leaf spot.
	Phoma sp.	Fruit spot, breakdown.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Venturia inaequalis (Cooke) Aderh.	Scab.
	Black tip (undetermined)	
	Brown leaf spot (undetermined).	
	Fruit cracking (non-parasitic).	
	Fruit spot (non-parasitic).	
	Leaf scorch (undetermined).	
	Leaf yellowing (undetermined).	
	Wither-tip, drying of branches (undetermined).	
	Wither-tip (undetermined).	
Eugenia pitanga Kiaersk.	Desiccation of leaves (undetermined).	
Ficus carica Linn. – Fig.	*Bacterium* sp.	Fruit shrivelling.
	Cladosporium sp.	Leaf spot.
	Colletotrichum sp.	Leaf spot.
	Kuehneola fici Butl.	Rust.
	Mucor sp.	Fruit shrivelling.
	Phomopsis sp.	Twig blight.
	Rhizopus sp.	Fruit shrivelling.
	Chlorosis (non-parasitic).	
	Leaf spot (non-parasitic).	
	Mosaic (virus ?).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Fragaria grandiflora Ehrh. – Strawberry.	*Aspergillus niger* v. Tiegh.	Fruit rot.
	Botrytis cinerea Auct.	Grey mould.
	Cercospora sp.	Leaf spot.
	Fusarium sp.	Collar and root rot.
	Marssonina potentillae (Desm.) Fisch.	Leaf spot.
	Mycosphaerella fragariae (Tul.) Lind.	Leaf spot.

Fragaria grandiflora Ehrh. – Strawberry.	*Phoma* sp.	Damping off, root rot.
	Pythium sp.	Associated with collar rot.
	Pythium sp.	Stem and collar rot.
	Rhizoctonia solani Kühn.	Collar and root rot.
	Rhizopus sp.	Fruit cracking, fruit rot.
	Saccharomyces sp.	Fruit rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Chlorosis (non-parasitic).	
	Fruit spot (non-parasitic).	
	Fruit wilt (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Silver spot (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Hibiscus sabdariffa Linn.	*Sclerotinia sclerotiorum* (Lib.) Mass.	Stem dry rot.
Juglans nigra Linn. – Black walnut.	*Fusarium* sp.	Root rot.
	Sclerotium bataticola Taub.	Root rot.
J. regia Linn. – English walnut.	*Pythium* sp.	Collar and root rot.
	Blight of branches (undetermined).	
	Leaf scorch (undetermined).	
Juglans sp. – Walnut.	*Alternaria* sp.	Drying of leaves and petioles associated with *Alternaria*, leaf spot.
	Bacterium sp.	Bacterial leaf blight.
	Fusarium sp.	Root rot.
	Marssonina juglandis (Lib.) Magn.	Leaf spot; fruit rot; collar and root rot.
	Sclerotium bataticola Taub.	Collar black rot; root rot; collar rot.
	Black tip on leaves (non-parasitic).	
	Mosaic (virus).	
Litchi chinensis Sonn.	*Fusarium* sp.	Damping off.
Macadamia ternifolia F. Muell. – Queensland nut.	*Gloeosporium* sp.	Anthracnose on leaves.
	Brown leaf spot (undetermined).	

Malus communis DC.	*Alternaria* sp.	Leaf spot.
	? *Cytosporina* sp.	Stem blight.
	Fusarium sp.	Root rot.
	Gloeosporium sp.	Leaf spot.
	Haplosporella mali (West.) Pet. et Syd.	Drying of cuttings.
	Macrophoma malorum (Berk.) Berl. et Vogl.	Branch blight.
	Sclerotium bataticola Taub.	Root rot.
	Leaf scorch (undetermined).	
M. communis 'Hashabi'	*Bacterium tumefaciens* EFS. et Town.	Crown gall.
	Diplodia sp.	Root rot.
	Fusarium sp.	Bark and xylem necrosis; root rot.
	Haplosporella mali (West.) Pet. et Syd.	Collar rot.
	Sclerotium bataticola Taub.	Root rot.
	Leaf spot (undetermined).	
M. mitis 'Doucin'.	*Bacterium tumefaciens* EFS. et Town.	Crown gall.
	Fusarium sp.	
	Phomopsis sp.	Root rot.
	Polyporellus rhizophilus (Pat.) Pilat. ?	Root rot.
	Sclerotium bataticola Taub.	Root rot.
	Sclerotium rolfsii Sacc.	Collar and root rot; collar rot.
	Dry root rot (undetermined).	
	Sun scald on collar (non-parasitic).	
	Trunk galls (non-parasitic).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Malus sp.	*Heterodera marioni* (Cornu) Goodey.	Root knot.
Mangifera indica Linn. – Mango.	*Alternaria* sp.	Branch drying, leaf scorch.
	Bacterium spp.	Blight on collar, twigs and fruits; leaf spot.
	Fusarium sp.	Root rot.
	Macrosporium sp.	Leaf spot.

Mangifera indica Linn. – Mango.	*Oidium* sp.	Mildew on flowers.
	Rhizoctonia solani Kühn.	Seed rot.
	Black leaf spot (undetermined).	
	Black tip (non-parasitic).	
	Brownishing of the stem-end-dropping (nonparasitic).	
	Leaf scorch (non-parasitic).	
	Leaf and twig spot (non-parasitic).	
	Shrivelling and fruit dropping (non-parasitic).	
	Twig drying (undetermined).	
Morus alba Linn.	*Cercospora* sp.	Sooty mould on lower leaf surface.
	Ganoderma sp.	Wood disintegration.
	Septogloeum mori Briosi et Cav.	Leaf spot.
M. alborosea.	*Fusarium* sp.	Root rot.
	Rhizoctonia solani Kühn.	Root rot.
M. nigra Linn.	*Cercospora* sp.	Sooty mould on lower leaf surface.
	Polyporus sp.	On branches.
Morus sp. – Mulberry.	*Alternaria* sp.	Drying of seedlings.
	Cercospora snelliana Reich.	Leaf spot.
	Fusarium sp.	Drying of seedlings, damping off.
	Macrosporium sp.	Leaf spot.
	Phoma sp.	Drying of seedlings, damping off.
	Septogloeum mori Briosi et Cav.	Leaf spot.
	Mosaic	(On leaves).
	Heterodera marioni (Cornu) Goodey.	Root knot.
Musa sp. – Banana.	*Acrothecium* sp.	Leaf spot.
	Alternaria sp.	Associated with *Diplodia* and *Fusarium*, fruit bunch drying; blackening of stem-end; drying of fruits; blackening of fruits.

Musa sp. – Banana.	*Bacterium* spp.	Tuber rot; heart rot; stem rot; collar and root rot.
	Botrytis sp.	Associated with *Sclerotinia*, fruit rot and cracking.
	Cercospora sp.	Yellowing of leaves.
	Diplodia sp.	Drying of fruit bunch.
	Dothiorella sp.	Blossom end rot.
	Fusarium equiseti (Corda) Sacc.	Fruit rot.
	Fusarium sp.	Wilt, rot.
	Gloeosporium musarum Cke. et Massee.	Associated with anthracnose; fruit rot.
	Nigrospora sp.	Black leaf spot.
	Penicillium digitatum Sacc.	Fruit rot.
	Phoma sp.	Leaf spot.
	Rhizoctonia solani Kühn.	Root rot.
	Sclerotinia sclerotiorum (Lib.) Mass.	Fruit rot.
	Sclerotium bataticola Taub.	Root rot.
	Stachylidium theobromae Turc.	Cigar-end rot.
	Ethylene injury on fruits (non-parasitic).	
	Brown fruit spot (non-parasitic).	
	Fruit cracking (non-parasitic).	
	Fruit drop (non-parasitic).	
	Leaf yellowing and spot (non-parasitic).	
	Bunchy top (virus ?).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Olea europaea Linn. – Olive.	*Alternaria* sp.	Leaf spot.
	Bacterium savastanoi EFS.	Knot.
	Basidiomycete (undetermined).	Collar wood disintegration.
	Cercospora sp.	Leaf spot.
	Cycloconium oleaginum Cast.	Leaf spot.
	Cylindrosporium sp.	Fruit spot.
	Fusarium sp.	Collar and root rot.
	Ganoderma sp.	Spongeous rot.

Olea europaea Linn. – Olive.	*Hormiscium oleae*	Leaf spot.
	Hysterographium fraxini	Twig spot.
	Macrophoma dalmatica (Thüm.) Berl. et Vogl.	Fruit spot.
	Macrophoma oleae	Leaf spot.
	Macrosporium sp.	Black spot on fruits.
	Phyllosticta sp.	Spots on twigs.
	Chlorosis (non-parasitic).	
	Wither tip (non-parasitic).	
	Xylem necrosis (non-parasitic).	
	Parmelia sp.	On twig.
	Fruit spot (undetermined).	
Persea drymifolia Cham. et Schlecht.–Avocado.	Fruit blackening and drop (undetermined).	
	Leaf scorch (undetermined).	
P. gratissima Gaertn. – Avocado.	*Cephalothecium roseum* Link.	Fruit rot.
	Diplodia sp.	Twig blight.
	Fusarium sp.	Collar and root rot.
	Phoma sp.	Twig brownishing.
	Physalospora sp.	Twig blight.
	Fruit bark cracking (non-parasitic).	
	Fruit drop (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Leaf spot (non-parasitic).	
	Wither tip (non-parasitic).	
Phoenix dactylifera Linn. – Date palm.	*Diplodia* sp.	Heart and root rot; dry rot.
	Fusarium sp.	Base rot, root rot, leaf rot.
	Graphiola phœnicis (Mong.) Poit.	False smut.
	Mauginella scaettae Cav.	
	Pestalozzia phœnicis Grev.	Leaf spot.
	Phyllosticta sp.	Dry leaf spot.
	Pleospora sp.	Petioles dry spot.
	Pythium sp.	Associated with root rot.
	Gum spot (non-parasitic).	
	Yellow transparent spot (undetermined).	
	Heterodera marioni (Cornu) Goodey.	Root knot.

Physalis alkekengi Linn. - Ground cherry.	*Fusarium* sp.	Collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
P. peruviana Linn. – Cape gooseberry.	*Pythium* sp.	Damping off.
Prunus amygdalus Stokes. – Almond.	*Alternaria* sp.	Associated with *Phoma* drying of the branches.
	Cercospora circumscissa Sacc.	Leaf spot, shot-hole.
	Exoascus deformans(Berk.) Fuck. = *Taphrina deformans* (Berk.) Tul.	Leaf curl.
	Fusarium sp.	Root rot.
	Phoma sp.	Associated with *Alternaria* drying of the branches.
	Polystigma ochraceum (Wall.) Sacc.	Brown leaf spot.
	Puccinia pruni-spinosae Pers.	Rust.
	Pythium sp.	Root rot.
	Brown small spots on twigs (undetermined).	
	Dry leaf spot (non-parasitic).	
	Shot-hole (undetermined). Mosaic ?	Leaves.
	Heterodera marioni (Cornu) Goodey.	Root knot.
P. amygdalus Stokes var. *amara.*	*Bacterium tumefaciens* EFS. et Town.	Crown gall.
	Cercospora circumscissa Sacc.	Leaf spot, shot hole.
	Fusarium sp.	Collar, root and rootlet rot.
	Polystigma ochraceum (Wall.) Sacc.	Brown leaf spot.
	Puccinia pruni-spinosae Pers.	Rust.
	Pythium sp.	Associated with *Fusarium* sp. and *Sclerotium bataticola*, root rot.
	Rhizoctonia solani Kühn.	Root and rootlet rot.

Prunus amygdalus Stokes var. *amara*.	*Sclerotium bataticola* Taub.	Root rot.
	Brown spots on twig (undetermined).	
	Fruit gumming (non-parasitic).	
	Shot-hole (undetermined).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
P. armeniaca Linn. – Apricot.	*Alternaria* sp.	Fruit and leaf spot.
	Cladosporium sp.	Leaf spot; associated with fruit rot.
	Fusarium sp.	Fruit rot; twig blight; collar and root rot (on stocks: Almond, Myrobalan, Klabi).
	Phycomycete.	Shrivelling of fruit.
	Podosphaera oxyacanthae (DC.) De By.	Powdery mildew.
	Polyporellus rhizophilus (Pat.) Pilat. ?	Spongeous rot.
	Puccinia pruni-spinosae Pers.	Rust.
	Rhizoctonia solani Kühn.	Collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Sporotrichum sp.	Associated with twig blight.
	Verticillium sp.	Root rot.
	Bud drop (non-parasitic).	
	Fruit spot (undetermined).	
	Fruit shrivelling (undetermined).	
	Gum spot (non-parasitic).	Twig, fruit.
	Leaf gummosis (undetermined).	
	Leaf spot (non-parasitic).	
	Leaf spot (undetermined).	
	Little leaf (non-parasitic).	
	Shot-hole (undetermined). Virus ?	Leaves.
	Wither-tip (undetermined).	
	Sun scald.	Leaves, fruit.
	Wither-tip (non-parasitic).	
P. avium Linn. – Sweet cherry.	*Bacterium tumefaciens* EFS. et Town.	Crown gall.

Prunus avium Linn. – Sweet cherry.	*Fusarium* sp.	Root rot (on Mahaleb stock).
	Rhizoctonia solani Kühn.	Collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Shot-hole disease (undetermined) Virus ?	Leaves.
	Gummosis (undetermined).	Branches.
	Leaf drying and dropping (non-parasitic).	
	Leaf spot (non-parasitic).	
	Leaf spot (undetermined).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
P. avium 'Mazard' – Mazard stock.	*Fusarium* sp.	Root rot.
	Sclerotium bataticola Taub.	
P. cerasus Linn. – Sour cherry.	*Rhizopus* sp.	Black spot and fruit rot.
	Dry leaf spot (undetermined).	
	Leaf discoloration (non-parasitic).	
P. domestica Linn. – Plum, prune.	*Alternaria* sp.	Leaf spot; fruit spot-break down; sooty mould on twig.
	Bacterium tumefaciens EFS. et Town.	Crown gall (on Myrobalan, bitter Almond and unknown stocks).
	Cercospora circumscissa Sacc.	Leaf spot.
	Cladosporium sp.	Leaf spot; sooty mould on twig; associated with shot-hole.
	Fusarium sp.	Collar and root rot, gummosis (on different stocks).
	Ganoderma sp.	Spongeous rot (on bitter Almond).
	Macrosporium sp.	Leaf spot, sooty mould.
	Oidium sp.	Powdery mildew on leaves; powdery mildew on fruit associated with root rot.
	Phoma sp.	
	Pleospora sp.	Leaf spot.

Prunus domestica Linn. – Plum, prune.	*Puccinia pruni-spinosae* Pers.	Rust.
	Rhizoctonia solani Kühn.	Collar and root rot (on Myrobalan and bitter Almond).
	Rhizopus sp.	Fruit rot associated with bird injury.
	Sclerotium bataticola Taub.	Collar and root rot, gummosis on different stocks.
	Shot-hole (undetermined).	Leaves.
	Mosaic?	
	Sooty mould (undetermined).	
	Dry leaf spot (non-parasitic).	
	Fruit spot (non-parasitic).	
	Hot wind injury.	Blossom blackening and drop.
	Leaf spot (non-parasitic).	
	Sun scald.	Fruit.
	Mosaic (? virus).	Transparent oil spot.
	Heterodera marioni (Cornu) Goodey.	Root knot (on bitter Almond and Myrobalan).
P. Karassya. – Karassya stock.	*Fusarium* sp.	Collar and root rot.
	Shot-hole (undetermined).	Leaves.
	Mosaic.	
P. laurocerasus Linn.	Shot-hole (undetermined).	Leaves.
	Mosaic.	
P. mahaleb Linn. – Mahaleb berry stock.	*Fusarium* sp.	Collar and root rot.
	Sclerotium bataticola Taub.	Collar and root rot.
P. Myrobalan Loisel. – myrobalan stock.	*Aspergillus* sp.	
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Fusarium sp.	Collar and root rot.
	Dothiorella sp.	Root rot.
	Puccinia pruni-spinosae Pers.	Rust.
	Sclerotium bataticola Taub.	
P. persica Sieb. et Zucc. – Peach.	*Alternaria* sp.	Leaf spot.
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Fusarium sp.	Collar and root rot.

Prunus persica Sieb. et Zucc. – Peach.	*Puccinia pruni-spinosae* Pers.	Rust.
	Rhizoctonia solani Kühn.	Collar rot and gummosis.
	Sclerotium bataticola Taub.	Collar and root rot.
	Sphaerotheca pannosa (Wallr.) Lév.	Powdery mildew.
	Shot-hole (undetermined).	
	Fruit cracking (non-parasitic).	
	Gum spot (non-parasitic).	Leaf.
	Gumming (undetermined).	Leaf, twig, fruit.
	Spongeous root rot (undetermined).	
	Wither-tip (undetermined).	
	Heterodera marioni (Cornu) Goodey.	Root knot.
P. pissardii Carr.	*Puccinia pruni-spinosae* Pers.	Rust.
	Fruit cracking (non-parasitic).	
Psidium guajava Linn. – Guava.	Chlorosis (non-parasitic).	
	Damping off (undetermined).	
	Leaf red discoloration (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Wither-tip (undetermined).	
Punica granatum Linn. – Pomegranate.	*Aspergillus* sp.	Fruit rot, internal brown rot.
	Bacterium sp.	Internal brown rot.
	Coniothecium sp.	Bark black mould.
	Brown leaf spot (non-parasitic).	
	Fruit cracking (non-parasitic).	
	Leaf roll (non-parasitic).	
	Leaf yellowing (non-parasitic).	
Pyrus communis Linn. – Pear.	*Alternaria* sp.	Fruit spot; fruit rot; fruit blackening and shrivelling; twig drying; bark sloughing off and browning.

Pyrus communis Linn. – Pear.	*Bacterium* sp. ?	Pear blight.
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Cladosporium sp.	Sooty mould.
	Fusarium sp.	Collar and root rot; twig blight; leaf spot.
	Macrosporium sp.	Associated with fruit rot and sloughing off of bark.
	Phoma sp.	Twig blight.
	Phoma cydoniae (Schulz) Sacc. et Trav.	Collar rot (on Quince).
	Phomopsis sp.	Blight.
	Pleospora sp.	Leaf spot.
	Polyporellus rhizophilus (Pat.) Pilat. ?	Spongeous rot (on Quince and Doucin).
	Sclerotinia fructigena (Pers.) Schr.	Brown rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Sooty mould (undetermined).	
	Sphaeropsis sp.	Wither-tip and sloughing off of bark.
	Stemphylium sp.	Associated with spots.
	Venturia pyrina Aderh. = *Fusicladium pyrinum* (Lib.) Fuck.	Scab.
	Black tip (non-parasitic).	Young fruit disorder.
	Fruit blackening (non-parasitic).	
	Fruit spot (undetermined).	
	Leaf spot (non-parasitic).	
	Leaf spot (undetermined).	
	Leaf yellowing (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Wither-tip(undetermined).	
P. malus Linn. – Apple.	*Alternaria* sp.	Leaf spot; fruit rot; associated with wither-tip.
	Ascochyta sp.	Stem and twig blight.
	Aspergillus niger v. Tigh.	Fruit rot; associated with mechanical injury.

Pyrus malus Linn. – Apple.	*Aspergillus* sp.	Fruit rot.
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Bacterium sp.	Black rot.
	Cephalothecium roseum Link.	Fruit rot.
	Cladosporium sp.	Leaf spot, fruit spot.
	Cytosporina sp.	Blight and root rot (on Doucin).
	Dematium sp.	Associated with blight and root rot.
	Diplodia sp.	Fruit rot; blight; collar and root rot (Hashabi).
	Fusarium sp.	Collar and root rot, blight; associated with collar and root rot.
	Gloeosporium fructigenum Berk.	Fruit spot; anthracnose.
	Gymnosporangium sp.	Rust.
	Haplosporella mali (West.) Pet. et Syd.	Fruit rot.
	Helminthosporium sp.	Rot, associated with mechanical injury.
	Dothiorella sp.	Stem, collar and root rot; blight.
	Macrosporium sp.	Fruit rot; leaf spot.
	Penicillium sp.	Fruit rot.
	Phoma sp.	Blight; associated with collar and root rot.
	Pleospora sp.	Fruit rot; leaf spot.
	Podosphaera leucotricha (Ell. et Ev.) Salm.	Powdery mildew.
	Polyporellus rhizophilus (Pat.) Pilat.	Spongeous rot.
	Rhizoctonia solani Kühn.	Root rot.
	Rhizopus sp.	Fruit rot.
	Schizophyllum sp.	Dry rot.
	Sclerotium bataticola Taub.	Collar and root rot.
	Sclerotium rolfsii Sacc.	Collar and root rot.
	Sooty mould (undetermined).	
	Sphaeropsis malorum Peck.	Black rot.
	Sporotrichum sp.	Associated with *Fusarium* blight.

Pyrus malus Linn. – Apple.	*Stemphylium* sp.	Associated with fruit rot.
	Venturia inaequalis (Cke.) Aderh. = *Fusicladium dendriticum* (Wallr.) Fuck.	
	Verticillium sp.	Black fruit rot; root rot.
	Black tip (non-parasitic).	
	Blotchy cork (non-parasitic).	
	Fruit cracking (non-parasitic).	
	Fruit spot (non-parasitic).	
	Internal browning (non-parasitic).	
	Leaf scorch (non-parasitic).	
	Leaf spot (non-parasitic).	
	Leaf yellowing (non-parasitic).	
	Mummification of fruits (undetermined).	
	Silver leaf (non-parasitic).	
	Wind injury.	
	Bitter pit of fruit.	
	Fruit spot (undetermined).	
	Leaf spot (undetermined).	
	Twig knot (undetermined).	
	Twig spot (undetermined).	
	Wither-tip (undetermined).	
	Cuscuta sp.	Dodder.
P. syriaca.	*Alternaria* sp.	Seed rot.
	Bacterium sp.	Seed rot.
	Fusarium sp.	Seed rot.
Rubus sp.	*Bacterium tumefaciens* EFS. et Town.	Crown rot.
	Fusarium sp.	Root rot.
	Brown leaf spot (non-parasitic).	
Sapota sp.	Black spot (undetermined).	Sooty mould on leaves.
Vitis vinifera Linn. – Grape.	*Aspergillus niger* v. Tigh.	Fruit rot.
	Bacterium tumefaciens EFS. et Town.	Crown gall.
	Botrytis cinerea Auct.	Leaf and fruit rot.
	Cercospora roesleri (Catt.) Sacc.	Leaf spot.

Vitis vinifera Linn. – Grape.	*Cercospora* sp.	Leaf spot.
	Coniothecium sp.	
	Fusarium sp.	Collar and root rot.
	Mucor sp.	Fruit rot.
	Oidium tuckeri Berk. = *Uncinula necator* (Schw). Burr.	
	Penicillium digitatum Sacc.	Fruit rot.
	Penicillium sp.	Fruit rot.
	Pestalozzia sp.	Twig spot.
	Phoma sp.	Root rot.
	Phytophthora sp.	Leaf rot.
	Plasmopara viticola (Berk. et Curt.) Berl. et De Toni.	Downy mildew.
	Polyporellus rhizophilus (Pat.) Pilat.	Spongeous rot.
	Polyporus sp.	Phthiriosis.
	Rhizoctonia solani Kühn.	Collar and root rot.
	? *Rhizoctonia* sp.	Mould on the stem.
	Sclerotium bataticola Taub.	Collar and root rot.
	Stereum necator Viala.	Esca.
	Verticillium sp.	Root rot
	Black tip (non-parasitic).	
	Brunissure (non-parasitic).	
	Chlorosis (non-parasitic).	
	Coulure (non-parasitic).	
	Fruit drop (non-parasitic).	
	Fruit shrivelling (non-parasitic).	
	Gum spot (non-parasitic).	
	Hot wind injury.	
	Leaf scorch (non-parasitic).	
	Leaf spot (non-parasitic).	
	Leaf yellowing (non-parasitic).	
	Melanosis (undetermined).	
	Panachure (non-parasitic).	
	Sunburn.	
	White alkali deterioration.	
	Leaf mosaic ? Virus.	
	Cuscuta sp.	
	Heterodera marioni (Cornu) Goodey.	Root knot.
Zizyphus vulgaris Lam.	*Puccinia* sp.	Rust.

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Argentine Republic. — According to Decree No. 31.849 of May 26, 1939, the plants, cuttings and young fruits of certain genera of Rosaceae (*Amelanchier, Amygdalus* [= *Prunus*], *Aronia* [= *Osteomeles, Amelanchier*], *Crataegus, Cydonia* [= *Pyrus*], *Eriobotrya, Photinia, Prunus, Pyracantha* [= *Crataegus*], *Pyrus, Rosa, Rubus, Sorbus* [= *Pyrus*], *Spiraea*, etc.) capable of acting as vectors of the fire blight (*Erwinia amylovora* [=*Bacillus amylovorus*]), as well as plants and cuttings of sugar cane (*Saccharum officinarum*) to be introduced into the Republic, are to be placed in quarantine for a period of observation to be determined in each special case, even though the consignments are sent together with a health certificate. (*Boletín Oficial de la República Argentina*, Buenos Aires, 5 de junio de 1939, año XLVII, núm. 13.454, pág. 6971).

*** By Decree No. 37.841 of August 5, 1939, the cotton-growing zones of the country are divided into three categories (zones infested by the pink bollworm (*Platyedra gossypiella*), zones suspected of being infested and zones free from attack) and the measures to be adopted in each zone with a view to controlling this pest are laid down. (*Ibid.*, 10 de agosto de 1939, núm. 13.508,, págs. 9655 y 9656).

Belgium. — By Ministerial Decree of August 11, 1939, all potato crops grown within a radius of ten kilometres from establishments where horticultural plants are cultivated for export, must be effectively treated with lead or calcium arseniate at least twice a year or with contact preparations such as rotenone, at least three times a year. (*Moniteur Belge*, Bruxelles, 13 août 1939, 109e année, nº 225, p. 5620).

France. — Two Ministerial Decrees of July 22, 1939 authorize the sale and use of the cyanide products ' Cyanelectro ' and ' Electrocyan ' for utilization in agriculture as fumigants under the conditions laid down by the Ministerial Decree of July 20, 1938 [see this *Bulletin*, 1938, No. 12, pp. 271-272], and also the sale and use of the arsenical preparation ' Arsagri électro ' for dusting of potatoes under the conditions laid down by the Ministerial Decree of August 1, 1938 [see this *Bulletin*, 1938, No. 12, p. 272]. (*Journal officiel de la République française*, Paris, 25 juillet 1939, LXXIe année, nº 173, p. 9388).

*** A Ministerial Decree of August 7, 1939 establishes the tariff to be charged by agricultural research stations and laboratories for analyses or the testing of insecticides, fungicides, weedkillers and any other research work required by private persons. (Ministère de l'Agriculture. Direction de l'Agriculture. *Bulletin de l'Office de Renseignements agricoles*, Paris, 1er septembre 1939, nos 16-17, p. 466-467).

*** A Ministerial Decree of August 18, 1939 delimits the areas of the six agricultural regions of the country to be supervised by the district inspectors.

By the same Ministerial Decree, an inspector general of agriculture assisted by a district inspector is charged with the question of plant protection and the co-ordination of the activities of the Service. Phytopathological inspection is carried out under the supervision of the district inspector. The inspector general will also act as president of the technical Committee entrusted with the official supervision of the sanitary inspection of potato crops intended for seed. (*Journal officiel de la République française*, Paris, 19 août 1939, LXXI[e] année, n° 194, p. 10436).

Guadeloupe. — Decree No. 415 of March 8, 1939 provides that the list of regions contaminated by cryptogamic diseases or animal pests which may prove a source of danger to banana cultivation in Guadeloupe shall be made public in the ' Journal Officiel '.

In the case of isolated contamination, the proprietor in question will be notified by the district mayor of the presence of these diseases or pests on his plantation.

In the communes which export bananas, the municipal authorities will open a special register in which will be recorded: the surname and christian names of the proprietor, situation and extent of area under banana cultivation, date when statement made. A list of these statements will be drawn up quarterly and forwarded to the Chief of the Agricultural Service.

The proprietors are required to destroy seriously infested plantations within the period indicated by the Chief of the Agricultural Service, otherwise, on the expiration of this period, the necessary measures will be carried out by officers nominated by the Chief of the Agricultural Service. The costs of these operations will be collected by the Treasury.

Infringement of this Decree will be reported by police superintendents, gendarmes, police officers, forest wardens, and officers charged with the phytosanitary inspection of crops and their products. These officers are also authorized to stop any vehicle transporting banana clusters or plants with a view to ascertaining their origin. (*Journal officiel de la Guadeloupe*, Basse-Terre, 23 mars 1939, n° 14, p. 271-272).

Italy. — By Ministerial Decree of August 16, 1939, the application of the exchange duty at the reduced rate of 0.75 per cent. is extended from September 15, 1939 to the parasiticides ' Zolfo cuprico ', ' Trizol n. 1 ', ' Trizol n. 2 ', ' Trizol n. 3 ' and ' Trizol n. 4 '. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 13 settembre 1939, anno 80°, n. 214, p. 4375).

*** By Ministerial Decree of September 8, 1939, the commune of Olevano Romano, Province of Rome, is declared to be infested with grape phylloxera. (*Ibid.*, 18 settembre 1939, n. 218, pp. 4438-4439).

Portugal. — ' Portaria ' No. 9:266 of July 15, 1939 ratifies the regulations relative to the depreciation of damaged wheats.

If impurities exceed 2 per cent. by weight, the wheat is considered to be depreciated in value.

Impurities are: grain attacked by ' cockles ' [*Anguillulina tritici*] or bunted (*Tilletia*), 6 per cent. or over of grain damaged by the corn weevil (*Calandra granaria*), the Angoumois grain moth (*Sitotroga cerealella*), the corn moth (*Tinea granella*), the cadelle beetle [*Tenebroides mauritanicus*], etc. (*Diário do Govêrno*, Lisboa, 15 de julho de 1939, I série, núm. 164, págs. 722-724).

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